

Centrale de biogaz

Construction

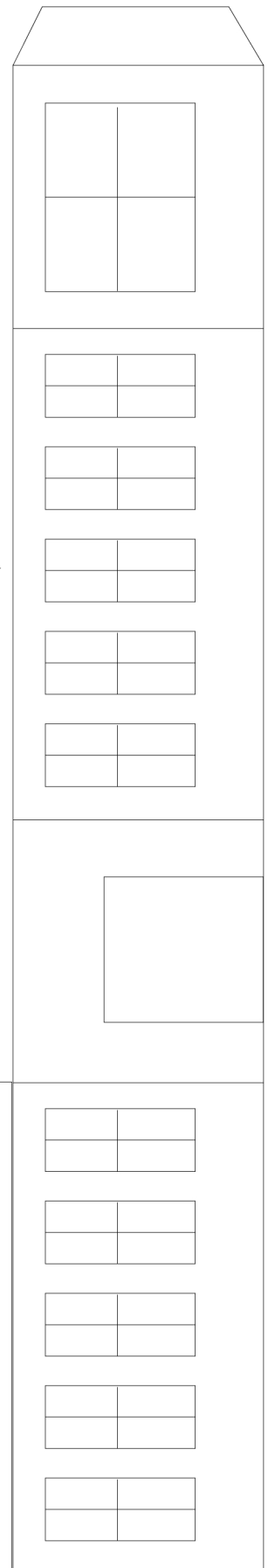
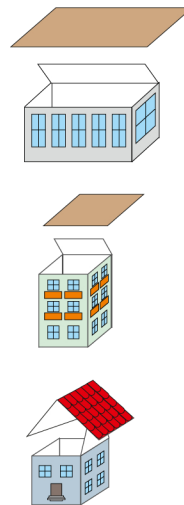
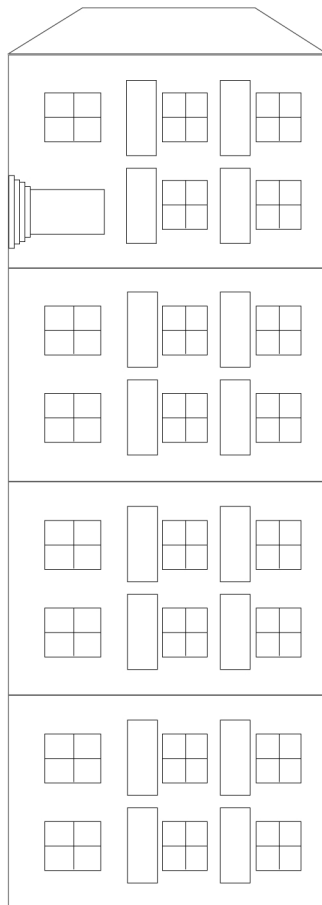
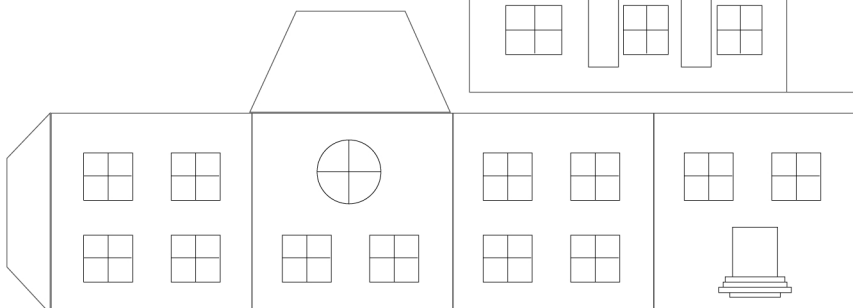
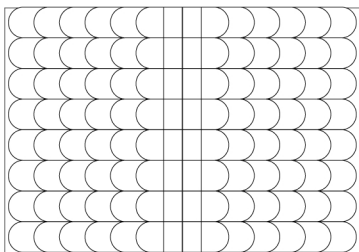
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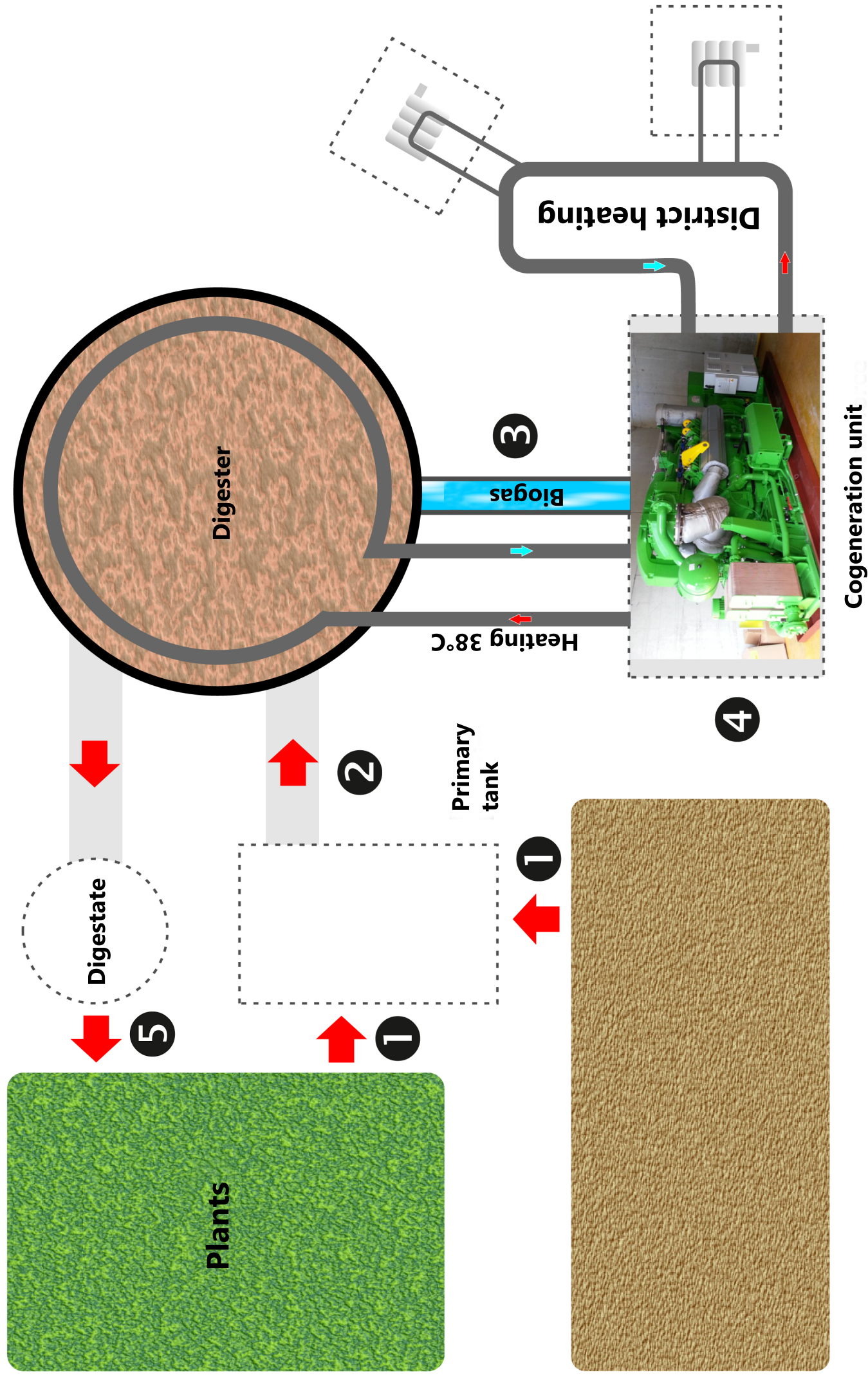
Print this page on card paper (bristol). Colour, cut and fold the buildings. Glue the flaps and form two houses and a power plant. For the larger building and the power plant, cut their roofs in left overs of brown cardboard using the below models. Glue the roofs to the top flaps of the buildings to form kind of lids.

chablon

Model for the
roof of the larger
building

Model for the roof
of the co-generation
powerplant





The biogas installation of

- 1** Animals and plants produce waste which is stored in the primary tank.
- 2** Waste is brought to the digester where it will ferment without oxygen.
- 3** In the digester, the fermentation produces methane gas which is used by the cogeneration unit.
- 4** The cogeneration unit produces :
 - heat to warm up the digester and heat buildings
 - electricity which is sent to the powergrid.
- 5** Left overs from the fermentation (digestate) are stored and can be used as fertilizer.